

POWER BASED CHANNEL ASSIGNMENT
IN A WIRELESS COMMUNICATION SYSTEM

ABSTRACT

5 A communications platform (100) assigns communication channels (58, 78) to
users based on a power level associated with the individual users. An available
bandwidth for use by the communications platform (100) is segmented into a number of
sub-bands using a bank of filters (54, 78). A number of independent communication
channels (58, 78) are then provided within each of the sub-bands using an appropriate
10 multiple access scheme (e.g., code division multiple access). A power range is then
specified for each of the sub-bands. When a communication connection is to be
established, a power level associated with the connection is determined. One or more
sub-bands are then identified that have power ranges encompassing the determined power
level. A channel is then assigned to the communication connection from one of the
15 identified sub-bands.